

### **ABSTRACT**

Methods and systems are disclosed that can be used for the automated preparation and analysis of mixtures comprising a compound-of-interest (e.g., the active ingredient of a pharmaceutical composition) and one or more excipients. Specific embodiments of the  
5 invention are particularly suited for the precise preparation and screening of small amounts of excipients, compounds-of-interest, and mixtures thereof. The invention is also well suited for the preparation and screening of small amounts of mixtures comprising high concentrations of compounds-of-interest.

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